Index to Volume 85 of THE BRYOLOGIST[1,2]

Acarospora chlorophana, 16; fuscata, 16, 189; schleicheri, 189+; strigata, 189+
Acaulon mediterraneum, 214; muticum var. rufescens, 24; triquetrum, 214
Acidodontium, 244
Acrobolbus ciliatus, 178; debilis, 178
Acrochila biserialis, 387
Acrocryphaea mexicana, 267; robusta, 111
Acromastigum, 231+
Adelanthus bisetulus, 378; decipiens, 378; pittieri, 378
air pollution, lichens, 204, 211, 372
Alabama, new mosses for, 405+
Alectoria imshaugii, 5, 15+; nigricans, 68; ochroleuca, 68, var. sarmentosa, 68; sarmentosa, 5, 15+, subsp. vexillifera, 68; alpicola, 68
Allantoparmelia alpicola, 68
allelopathy, in lichens, 222
ALLEN, B. Isothecium alopecuroides new to North America, 421
Aloina, 401+; bifrons, 24; pilifera, 24
Aloinella, 403
Alsia californica, 29
ALSTRUP, V. The epiphytic lichens of Greenland, 64
Amblystegium juratskanum, 30, 325; polygamum, 30; riparium, 30, 419, var. brachyphyllum, 419; saxatile, 30; serpens, 30, 310, 325, var. juratzkanum, 30; tenax, 30, var. spinifolium, 174; trichopodium, 30; varium, 40+, 52+, 310
Amphidium gardneri, 28; lapponicam, 28, 325, 336; mougeotii, 28
Anacamptodon cubensis, 198, var. latifolius, 198; splachnoides, 193+, 194*, 197*, 199*, 201*, 335
Anacolia laevisphaera, 309; menziesii, 28, 325
Anaptychia fusca, 390
ANDERSON, L. E. (Review), D. H. S. Richardson. The Biology of Mosses, 274
ANDERSON, L. E. & P. G. PALMER. The peristome of Anacamptodon splachnoides, 193
Andreaea blyttii, 23; depressinervis, 131+, 133*; gainii, 131+, 133*, 429; nivalis, 23, 325; regularis, 429; rothii, 23; rupestris, 23, 325, 335
Aneura pinguis, 276
ANGELES CÁRDENAS S., M. *See* DELGADILLO M., C. & M. ANGELES CÁRDENAS S. & A. J. SHARP, 253
Anoectangium aestivum, 254; handelii, 214
Anomalolejeunea, 179
Anomobryopsis, 249
Anomobryum, 174, 244
Anomodon attenuatus, 41+, 52, 310; rostratus, 41+, 52, 310; rugelii, 41+, 52; solovjovii, 445; viticulosus, 33
Antarctica, deep water mosses in, 424+; karyological studies on mosses, 131
Anthelia juratskana, 28
Anthoceros, 358
Antitrichia breidleriana, 214; californica, 29, 214, 325; curtipendula, 2, 29
ANTOS, J. A. *See* MCCUNE, B. & J. A. ANTOS, 1
Aongstroemii orientalis, 247
Aphanolejeunea contractiloba, 105+, 106*, 107*, 180; ephemeroides, 108; microscopica, 105; minuta, 105; tuberculata, 108
Aphanorregma, 99; serratum, 26
arctic mosses, 139+
Arctoa blyttii, 24; falcata, 24; fulvella, 24; hyperborea, 24; starkei, 24
Arkansas, new moss record, 334
Arthonia patellulata, 67+
Arthopyrenia cembrina, 68; grisea, 68; kentrospora, 68; punctiformis, 69
Aschisma carniolicum, 214
ascospore germination, 222
aspect, bryophyte distribution, 281+
aspect, lichen distribution, 204+
Aspicilia alpina, 16; caesiocinerea, 16, 189+; calcarea, 189+; cinerea, 16, 189+
associations, of bryophytes, 281+
Asterella tenella, 74+, 76*
Atractylocarpus **stenocarpus**, 126+
Atrichum altecristatum, 33; crispum, 33; rhystophyllum, 450; selwynii, 32+; tenellum, 33; undulatum, 33, 450
Aulacomnium androgynum, 28, 219, 325; heterostichum, 44, 52, 227+, 229*; palustre, 28, 319, 325, 447; turgidum, 442
Aulacopilum glaucum, 280; tumidulum, 280
Aurelejeunea, 179
Australia, lichen genera of, 471
AWASTHI, U. S. *See* UDAR, R., U. S. AWASTHI & F. SHAHEEN, 329
azide, effects on lichens, 361+

Bacidia atrogrisea, 69, 440; idahoensis, 16; obscurata, 16; sabuletorum, 16; schweinitzii, 20; sphaeroides, 16

---

[1] Compiled by R. E. Andrus, State University of New York at Binghamton, Binghamton, NY 13901.

[2] New scientific names are printed in bold face type; illustrations are indicated by an asterisk; taxa discussed or mentioned several times in a paper are indicated by a plus sign.

BAILEY, C. & D. W. LARSON. Water quality and pH effects on Umbilicaria mammulata (Ach.) Tuck., 431
barbatic acid, 129
Barbella minuta, 445
Barbilophozia barbata, 142, 286+; lycopodioides, 142
Barbula acuta, 218; agraria, 254; brachyphylla, 25; convoluta, 25, 325; cylindrica, 25; decurrens, 445; elata, 33; eustegia, 25; fallax, 25; indica, 126, 254; linearis, 128; platyneura, 25; rubiginosa, 25; unguiculata, 248; vinealis, 25, var. flaccida, 25
Bartramia, ithyphylla, 28, 325; patens, 133*, 135+; pomiformis, 28, 227+, 22a+; stricta, 215, 325
Bartramiopsis lescurii, 238
BAUER, C. R. *See* CROSBY, M. R. & C. R. BAUER, 160, 349, 463
Bazzania, 232+; nudicaulis, 236; pearsonii, 238; praerupta, 234; trilobata, 40+, 52+, 236
BELLAND, R. J. *See* BRASSARD, G. R., R. J. BELLAND & J. BRIDGLAND, 139
BELLAND, R. J. *See* HEDDERSON, T., G. R. BRASSARD & R. J. BELLAND, 442
BEN-SASSON, R. *See* HERRNSTADT, I., C. C. HEYN, R. BEN-SASSON & M. R. CROSBY, 214
Bestia vancouveriensis, 29
Bhutan, new hepatic genus, 231+
bisulfite, effects on lichens, 361+
Blepharostoma trichophyllum spp. brevirete, 98
Blindia acuta, 24, 248, 325, 335
Bolivia, new moss record, 322
BOWERS, F. D. *See* GLIME, J. M., F. D. BOWERS & A. D. SLAVICK, 335
Brachymenium, 244+; borgenianum, 110; globosum, 254; klotzchii, 254; leptophyllum, 111, macrocarpum; 254, systylium, 309
Brachythecium acuminatum, 285+; acutum, 33; albicans, 31, 310, 325; austro-salebrosum, 134*, 136+, 428; bolanderi, 31, 325; campestre, 31; collinum, 31, 220, 310, 325; curtum, 31, 397; erythrorrhizon, 31; fendleri, 310; frigidum, 31, 325; holzingeri, 31; hylotapetum, 31; leibergii, 31, 325; oxycladon, 31, 41+, 52, 284+; plumosum, 31, 40+, 52+, 248; reflexum, 286+, 397, var. pacificum, 31; stereopoma, 310; velutinum, 31, 286+, 325, 396+, var. venustum, 31
branching, in hepatics, 104+
BRASSARD, G. R., R. J. BELLAND & J. BRIDGLAND. Two rare arctic or montane mosses new to the Canadian Arctic Archipelago, 139
BRASSARD, G. R. *See* HEDDERSON, T., G. R. BRASSARD & R. J. BELLAND, 442
Brazil, Manaus & vicinity, bryophytes of, 175
BREIL, D. The rediscovery of Rectolejeunea pililoba (Spruce) Schust. (Hepaticae) in Florida, 84
BREIL, D. A. *See* GRIFFIN, D., III & D. A. BREIL, 437
Breutelia arcuata, 399
Brevianthus flavus, 375+, 379*, 381*, 383*, 385*, 386*
BRIDGLAND, J. *See* BRASSARD, G. R., R. J. BELLAND & J. BRIDGLAND, 139
British Columbia, new hepatic genus, 231+
Brotherella recurvans, 40+, 52+, 286+, 397; tenuirostre, 52+
BROTHERSON, J. D. *See* RUSHFORTH, S. R. & L. L. ST. CLAIR, J. D. BROTHERSON & G. T. NEBEKER, 185
Bruchia bolanderi, 24, 325
Bryhnia graminicolor, 44, 52; novae-angliae, 44, 52, 336
Bryoandersoniana, 174; illecebra, 220
Bryoerythrophyllum columbianum, 25; recurvirostrum, 25, 248, 309, 325, var. aeneum, 254
bryophyte anatomy 97+, 104+, 115+, 193+
bryophyte physiology, 43+, 410+
Bryopogon jubatus, 68
Bryoria abbreviata, 5+, 16; capillaris, 5, 15+; chalybeiformis, 69; fremontii, 5+, 15+; friabilis, 15+; fuscescens, 5+, 15+, 69, 207+; lanestris, 16, 69; oregana, 16; pseudofuscescens, 15+; simplicior, 67+
Bryum, 146, 244+; algens, 424+, 425*, 426*; alpinum, 26; annotinum, 148; apiculatum, 254; argenteum, 26, 309, 325; bicolor, 27, 220; caespiticum, 27; canariense, 27+, 325; capillare, 27, 220, 309, 325; coronatum, 254; creberrimum, 27; cremocarpum, 445; danense, 215; falcatum, 239; gemmiparum, 27, 309+; intermedium, 215; knowltonii, 420; korotkevicziae, 424+, var. hollebachii, 424; lacustre, 420; lisae var. cuspidatum, 27; meesioides, 27; microerythrocarpum, 27; miniatum, 27, 309, 325; muehlenbeckii, 27, 325; pallescens, 27, 325; pseudotriquetrum, 27, 309, 325, 426+, var. bimum, 27, var. crassinervum, 27; sandbergii, 27; stenotrichum, 27; tortifolium, 309; turbinatum, 27; uliginosum, 27; weigeli, 27, 325
BUCK, W. R. (review), Da-Mun Choe. Illustrated Flora and Fauna of Korea. Vol. 24: Musci. Hepaticae, 176
Buellia alboatra, 69, 189+; chlorophaea, 390; disciformis, 69; elegans, 251; epigaea, 251; parasema, 440, var. triphragmia, 69; papillata, 17; penichra, 17; punctata, 17, 69, 207+; retrovertens, 17, 189+
Buxbaumia aphylla, 32, 336; piperi, 32; viridis, 32

Calicium adaequatum, 17; viride, 17
California, Lassen Volcanic National Park, mosses, 324; Lunularia cruciata in, 320
Callicladium haldanianum, 397, 286+
Calliergidium austro-stramineum, 131+, 134*
Calliergon cordifolium, 30, 135; giganteum, 30;

richardsonii, 136; sarmentosum, 131+, 134*, 428+; stramineum, 30, 135, 310, 325; trifarium, 30
Calliergonella cuspidata, 30
Caloplaca arizonica, 189+; borealis, 69; cirrochroa, 251; decipiens, 189+; ferruginea, 69; flavovirescens, 189+; fraudans, 189+; holocarpa, 69; marina, 390; saxicola, 189+; stillicidiorum, 17; thallincola, 390; tiroliensis, 69; tominii, 251
Calymperes afzelii, 239+; donnellii, 254; erosum, 239+, 240*, 254; lonchophyllum, 254; palisotii, 239; richardii, 254
Campylium chrysophyllum, 30, 43, 52+, 218, 310; hispidulum, 30, 218, 286+, 396; polygamum, 30; radicale, 30; stellatum, 30
Campylopus alopecurus, 322; apollinairei, 322; atroluteus, 252; atrovirens, 238, 251; aureus, 24, 252; balanseanus, 252; bequaertii, 252; bicolor, 252; birgeri, 252; brevipilus, 252; cavifolius, 322; concolor, 322; filicuspes, 322; gertrudis, 322; harpophyllus, 322; hensii, 111; heterostachys, 322; horridus, 111; huallagensis, 322; incrassatus, 252; introflexus, 24, 252, 325; lamprodictyon, 322; longisubulatus, 322; malagensis, 322+; oblongus, 322; pallidus, 252; rosulatus, 323; savannarum, 252, 323; schwartzii, 252; setaceus, 252; stenopelma, 252; sarinamensis, 252; symonsii, 252; tallulensis, 252
Canadian Arctic Archipelago, mosses, 139+
Candelariella deflexa, 189; rosulans, 189+; vitellina, 17, 69, 189+, 207+, 390
carpocephalum, pitted cells in, 115
CASTETTER, R. C. *See* STARK, L. R. & R. C. CASTETTER, 307
Catoscopium nigritum, 248
Caudelejeunea cristoloba; 329+, grolleana, 331; lehmanniania, 329; **pluriplicata**, 329+, 330*; reniloba, 329
Cavernularia hultenii, 122+
Cephalocladium zerovii, 445
Cephalozia lunulifolia, 47, 53, 319; spinigera, 177
Cephaloziella byssacea, 177+; divaricata, 177+, 308, var. scabra, 308; elachista, 177; obtusilobula, 177; spinigera, 177; subdentata, 177
Ceratodon purpureus, 23, 227+, 229*, 309, 325, 396
Ceratolejeunea, 179
Cetraria canadensis, 17; chlorophylla, 5, 15+, 69, 207+; commixta, 69; ericetorum, 17; idahoensis, 5+, 15+; hepatizon, 69; merrillii, 5+, 17; orbata, 13+; pinastri, 17, 69+, 207+; platyphylla, 5+, 17; sepincola, 17, 69+
Chaetolejeunea, 180
Chandonanthus hirtellus, 237; pusillus, 237
Cheilolejeunea, 179
Chonecolea, 178; acutiloba, 380; andina, 315, 380; doellingeri, 315, 380+; **schusteri**, 315+, 316*
Chorisodontium aciphyllum, 131+, 133*
CHRISTY, J. A., J. H. LYFORD & D. H. WAGNER. Checklist of Oregon mosses, 22
Chromosome counts, Antarctic mosses, 131+; Ohio mosses, 227+
CHURCHILL, S. P. Mosses of the Great Plains VIII. Additions, 218
Ciliolejeunea, 179
Cinclidium subrotundum, 442
Cinclidotus aquatilis, 215; fontinaloides, 215; pachyloma, 215
^{14}C-indoleacetic acid, transport in Marchantia, 410
Cirriphyllum piliferum, 44, 52, 397
Cladina arbuscula, 17; evansii, 405+; mitis, 17; rangiferina, 437
Cladonia, 142; bacillaris, 17; caespiticia, 390; cariosa, 17; carneola, 17; caroliniana, 405; cenotea, 8, 17; chlorophaea, 17, 69; coccifera, 17, 69; coniocraea, 17; cornuta, 17, subsp. groenlandica, 69; cristatella, 222+; deformis, 17; ecmocyna, 17; fimbriata, 8, 17, 69; furcata, 17, 69; merochlorophaea, 17; multiformis, 17; norrlinii, 17; phyllophora, 17; pleurota, 17; pyxidata, 17, 69, 390; squamosa, 17; subulata, 17; sulphurina, 8, 17; umbricola, 17; verruculosa, 13+; verticillata, 17
Claopodium bolanderi, 30, 325; crispidolium, 30; whippleanum, 30, 325
Clasmatocolea acutiloba, 178; gayana, 377
Climacium dendroides, 29, 248, 397
Coelocaulon aculeatum, 70
Collema ceraniscum, 70; coccophorum, 189+; curtisporum, 15+; furfuraceum, 189+; occultatum, 67+; tenax, 17; undulatum, 189+; verrucaeforme, 70
Cololejeunea, 180, 331; biddlecomiae, 40+, 53; minutissima 105+, 106*, var. myriocarpa, 440; contractiloba, 180; cardiocarpa, 440
Colombia, new moss records, 322+
Colorado, new moss record, 334, 420
Colura, 180
Conardia compacta, 31
Coniocybe furfuracea, 17, 69
Conocephalum, 387; conicum, 115+, 116*
Conostomum magellanicum, 131+, 134*; pentastichum, 135; tetragonum, 28
corticolous cryptogams, bryophytes, 1+, 64+, 185+, 204+
Coscinodon raui, 218; urightii, 218
CRANDALL-STOTLER, B. *See* STOTLER, R. E. & B. CRANDALL-STOTLER, 151, 258, 337, 451
Cratoneuron commutatam var. falcatum, 30; filicinum, 30, 248, 325
CROSBY, M. R. & C. R. BAUER. Recent literature on mosses—121, 160
CROSBY, M. R. & C. R. BAUER. Recent literature on mosses—122, 349
CROSBY, M. R. & C. R. BAUER. Recent literature on mosses—123, 463
CROSBY, M. R. *See* HERRNSTADT, I., C. C. HEYN, R. BEN-SASSON & M. R. CROSBY, 214

Crossidium aberrans, 309
Crossotolejeunea, 179
CRUNDWELL, A. C. (review), H. A. Crum & L. E. Anderson. Mosses of Eastern North America, 173
Cryphaea filiformis. 254; glomerata, 440; heteromalla, 215; polycarpa, 254
cyanide, effects on lichens, 361+
Cygnicollum immersum, 99+, 100*, 101*
Cylindrocolea andersonii, 177+
Cynodontium alpestre, 335; jenneri, 24; schistii, 336
Cyphelium inquinans, 17; tigillare, 207+

DAMSHOLT, K. The perianth of Tritomaria quinquedentata var. turgida (Lindb.) Weim. (Hepaticae), 96
Dawsonia superba, 399
DELGADILLO M., C. Pseudaloina (Pottiaceae, Musci), a new genus from Yemen, 401
DELGADILLO M., C., M. ANGELES CÁRDENAS S. & A. J. SHARP. Mosses of the Yucatán peninsula, Mexico. I, 253
Dendroalsia abietina, 29, 325
Dendrobazzania, 231+; **griffithiana**, 234+, 235*
Dermatocarpon lachneum, 189+; leptophyllum, 189+; miniatum, 17, 189+; moulinsii, 17; reticulatum, 17
desiccation tolerance, 472
Desmatodon cernuus, 450; convolutus, 102; heimii, 25, 448; latifolius, 25, 309, 326; leucostomus, 442; obtusifolius, 25, 309, 326; plinthobus, 25; randii, 449+; spathulifolius, 255; sprengelii, 255; ucrainicus, 445+
DIBBEN, M. J. (review), I. M. Brodo. Lichens of the Ottawa Region, 470
DIBBEN, M. J. (review), R. W. Rogers. The Genera of Australian Lichens, 471
DIBBEN, M. J. (review), A. Singh. Lichenology in Indian Subcontinent: 1966–1977, 471
Dichelyma falcatum, 29; pallescens, 335; uncinatum, 29
Dichodontium pellucidum, 24, 326
Dicranella crispum, 24; grevilleana, 174; heteromalla, 24; pacifica, 24; palustris, 24; rufescens, 24, 248; schreberiana, 24, 174; var. robusta, 174; subulata, 24; varia, 24
Dicranodontium denudatum, 24
Dicranoweisia cirrata, 24, 326; crispula, 219, 326, var. contermina, 24, var. roellii, 24; grimmiaceae, 429
Dicranum bonjeanii, 33, 174; drummondii, 396; elongatum, 248; flagellare, 396+; fragilifolium, 24; fulvum, 46; fuscescens, 2, 24, 248, 326, 397; howellii, 24+; montanum, 40+, 52+, 286+, 396+; muehlenbeckii, 219; ontariense, 219; pallidisetum, 24; polysetum, 24+, 219, 396+; scoparium, 24+, 43+, 54, 142, 286+, 396+; spadiceum, 24; tauricum, 2+, 24, 219, 326; viride, 40+, 42+, 286+
Didymodon, 174; acutus, 254; aeneus, 254; australasii, 25; brachyphyllus, 25; columbianus, 25; fallax, 25; luridus, 309; occidentalis, 25; recurvirostris, 25; rigidulus, 25, 219, 309; tophaceus, 25, 309; vinealis, 25, 309+, 326, var. flaccidus, 25, var. nicholsonii, 326
Dimelaena oreina, 17, 91
Dimerella diluta, 17
Diphyscium foliosum, 336, 360*
Diplasiolejeunea, 180; rudolphiana, 440
Diploschistes actinostomus, 189+; scruposus, 18
Distichium capillaceum, 23, 248, 326, 335; inclinatum, 326
Ditrichum ambiguum, 23; cylindricum, 24, 174; flexicaule, 23; heteromallum, 23; lineare, 175; montanum, 23; pallidum, 227+, 229*; pusillum, 23; schimperi, 23
diversity, species, 44, 52, 190+
Donrichardsia, 146
Drepanocladus aduncus var. aduncus, 30, 248, 326, var. capillifolius, 33, var. Knieffii, 30; capillifolius, 33; exannulatus, 30, 325+; fluitans, 30; uncinatus, 30, 134*, 136, 285+, 326, 397, 429, var. symmetricus, 30; vernicosus, 30
Dryptodon patens, 25, 326
DUFRESNE, S. J. *See* GAAL, D. J., S. J. DUFRESNE & N. C. MARAVOLO, 410
echinocarpic acid, 121
ecology, of bryophytes, 1+, 37+, 281+, 394+, 424; of lichens, 1+, 66+, 185+, 204+
EGAN, R. S. Parmotrema **arteagum**, a new lichen species from Mexico, 79
EGAN, R. S. Recent literature on lichens—111, 166
EGAN, R. S. Recent literature on lichens—112, 266
EGAN, R. S. Recent literature on lichens—113, 342
EGAN, R. S. Recent literature on lichens—114, 456
EGAN, R. S. Xanthoparmelia barbatica (Elix) comb. nov.; new to North America, 129
EGUNYOMI, A. Eight mosses new to Nigeria, 110
EGUNYOMI, A. & S. O. OLARINMOYE. Syrrhopodon obuduensis, a new moss species from Nigeria, 312
Ellesmere Island, new lichen record, 251
El Salvador, new moss record, 327
ENGEL, J. J. & R. M. SCHUSTER. Austral Hepaticae XV. Brevianthaceae: A monotypic family endemic to Tasmania, 375
ENGEL, J. J. *See* SHARP, A. J. & J. J. ENGEL, 145
Entodon, 173; brevisetus, 41+, 52; cladorrhizans, 40+, 53, 310; polycarpus, 445; rufescens, 445; schleicheri, 310; seductris, 319
Entondon geminidens, 111
Entosthodon attenuatus, 33, 215; californicus, 26; clavatus, 102; fascicularis, 26, 215; leibergii, 26; subpallescens, 445

Ephemerum crassinerviam, 26; serratum, 26
epiphytic bryophytes, 1+, 37+, 281+
epiphytic cryptogams, 1+, 37+, 64+, 185+, 204+
epiphytic lichens, 1+, 64+, 185+, 204+
Epipterygium tozeri, 27
Erpodium beccarii, 280; biseriatum, 280; coronatum, 280; domingense, 254; glazioui, 280; pringlei, 280
Euosmolejeunea, 179
Eurhynchium brittoniae, 31; oreganum, 31; praelongum, 31, var. stokesii, 31; pringlei, 174; pulchellum, 31, 41+, 52, 310, 326, 397; var. barnesii, 31; riparioides, 31
Evernia mesomorpha, 207+; prunastri, 390
evernic acid, 222+
EVERSMAN, S. Epiphytic lichens of a ponderosa pine forest in southeastern Montana, 204

Fabronia ciliaris, 29, 309; gymnostoma, 310; pusilla, 29, 309
FIFE, A. J. & R. E. MAGILL. Cygnicollum immersum, a new genus and species of Funariaceae from the Cape of Good Hope, 99
FINNEN, M. M. Chromosome numbers of some mosses from southern Ohio, 227
Fissidens adianthoides, 23, 44, 52, 215; akelassii, 280; aphelotaxifolius, 23; arnoldii, 215; borgenii var. obtusifolius, 280; bryoides, 23, 174, 219, 309, 326; fontanus, 23, 310; fouta-djalloni, 280; garberi, 254; grandifrons, 23, 336; lachnanii var. lucidus, 280; limbatus, 200+; obtusifolius, 309; osmundioides, 23; pauperculus, 23; pseudoobtusifolius, 280; pygmaeus, 102; radicans, 254; seychellensis, 280; steerei, 254; subbasilaris, 40+, 52+; subceylonensis, 280; sublimbatus, 310; subundatus, 280; taxifolius, 23; ventricosus, 23; yucatanensis, 254; zollingeri, 254
Fissidentella perpusilla, 280
Fistulariella sp., 18
Florida, hepatic record, 84, 438
Fontinalis antipyretica, 29, 326, var. mollis, 29, var. oregonensis, 29, var. patula, 29; neomexicana, 29, 326; novae-angliae, 33; patula, 29
foray, first annual midwest bryological, 335
Forsstroemia stricta, 445; trichomitrion, 44, 53+
Fossombronia, 358
FRAHM, J.-P., Campylopodes Exsiccatae: Fascicle II, 252
FRAHM, J.-P. New Campylopus records from South and Central America II, 322
FRISVOLL, A. A. The status of Lophozia kiaerii Jørg., 142
Frullania, 104, 233+, 317, 377; bolanderi, 286+; brittoniae, 440; cobrensis, 438+; donnellii, 440; eboracensis, 41, 52+, 286+; ericoides, 440; inflata, 309, 438; kunzei, 440; obcordata, 440; rappi, 438; tamarisci, 40+, 52+
Funaria attenuata, 215; duriaei, 215; hygrometrica, 26, 74+, 76+, 224, 309, 326, 449, var. calvescens, 254, var. microstoma, 442, var. utahensis, 310; muhlenbergii, 26, 309; templetonii, 215
Funariaceae, generic revision, 472

GAAL, D. J., S. J. DUFRESNE & N. G. MARAVOLO. Transport of ^{14}C-indoleacetic acid in the hepatic Marchantia polymorpha, 410
gemmiferous leaf production, 239
Gigaspermum mouretii, 215
GLIME, J. M. Amblystegium riparium new to New Mexico, 419
GLIME, J. M., F. D. BOWERS & A. D. SLAVICK. The first annual midwest bryological foray, 335
GLIME, J. M. *See* TRYNOSKI, S. E. & J. M. GLIME, 281
Goniomitrium, 99
GORDY, V. R. & D. L. HENDRIX. Respiratory response of the lichens Ramalina stenospora Müll. Arg. and Ramalina complanata (Sw.) Ach. to azide, cyanide, salicylhydroxamic acid and bisulfite during thallus hydration, 361
GREEN, T. G. A. *See* SNELGAR, W. P. & T. G. A. GREEN, 301
Greenland, epiphytic lichens of, 64+
GRIFFIN, D., III & D. A. BREIL. Notes on Frullania cobrensis Gott. ex Steph. in Cuba and Florida, 438
Grimmia affinis, 25; agassizii, 25; alpestris, 25, var. holzingeri, 25; alpicola, 25, 309, 326, var. dupretii, 25, var. latifolia, 309, var. rivularis, 25; anodon, 25, 112+, 309, 326, var. anomola, 113; antarctici, 429; apocarpa, 25, 309, 326, var. conferta, 25, var. pulvinata, 326, var. stricta, 25; atricha, 26, 326; arizonica, 309; calyptrata, 26; cinclidontea, 26; donniana, 175, var. triformis, 26; dupretii, 25; elatior, 26; gibbosa, 215; hamylosa, 326; hartmanii, 326; incurva, 26, 175, 442; laevigata, 26, 309, 405; maritima, 26; mesopotamica, 215; montana, 26, 326; occidentalis, 26, 326; olympica, 26; orbicularis, 215; ovalis, 26, 309; pacifica, 26; pitardii, 215; plagiopoda, 26, 326; poecilostoma, 309; pulvinata, 26, 309; rauii, 25; tenerrima, 25, 309, 326; teretinervis, 220, 332+, 333*; torquata, 26, 326; trichophylla, 26, 326, var. tenuis, 33, var. wrightii, 309
GROLLE, R. (review), R. M. Schuster. The Hepaticae and Anthocerotae of North America East of the Hundredth Meridian. Volume IV, 176
Groutiella tumidula, 254
growth-form, of epiphytic bryophytes, 52+
growth rates, of lichens, 301
Guatemala, new moss record, 243
Gymnomitrion obtusum, 181
Gymnostomum aeruginosum, 25, 309, 326, 326; mosis, 215
gyrophoric acid, 121

Habrodon leucotrichus, 29, 238
haemagglutinins, in lichens, 389+
haemolysins, in lichens, 389+
Haplocladium microphyllum, 44, 53
Haplodontium, 249
Haplohymenium triste, 41+, 53
HEDDERSON, T., G. R. BRASSARD & R. J. BELLAND. New or additional moss records from Newfoundland VIII, 442
Hedwigia ciliata, 29, 309
Helodium blandowii, 30, 397; paludosum, 319
HENDRIX, D. L. *See* GORDY, V. R. & D. L. HENDRIX, 361
Herberta himalayana, 237
HERRNSTADT, I., C. C. HEYN, R. BEN-SASSON & M. R. CROSBY. New Records of mosses from Israel, 214
Herzogiella, 174; seligeri, 32; striatella, 44, 53; turfacea, 396+
Heterocladium dimorphum, 30, 219; macounii, 30; procurrens, 30
Heterodermia neoleucomelaena, 189+
HEYN, C. C. *See* HERRNSTADT, I., C. C. HEYN, R. BEN-SASSON & M. R. CROSBY, 214
HOISINGTON, B. L. & W. S. G. MAASS. Cavernularia hultenii in northernmost Newfoundland and southern Labrador, 122
Homalia trichomanoides, 29, 335
Homalotheciella subcapillata, 41+, 53
Homalothecium aeneum, 31; arenarium, 31; aristatum, 445; fulgescens, 31; megaptilum, 31; nevadense, 31, 326; nitens, 31; nuttallii, 31; pinnatifidum, 31; sericeum, 443
Homomallium adnatum, 40+, 53+; mexicanum, 310
Hookeria acutifolia, 238; lucens, 29, 448
host diameter, effects of bryophyte distribution, 281+
host specificity, of epiphytic bryophytes, 37+, 53+, 281+
Husnotiella revoluta, 309
Hydrogonium mamatkulovii, 445
Hygroamblystedium tenax, 310, 326
Hygrohypnum, 174; bestii, 30, 326; dieckii, 31; luridum, 30, 310, 326; molle, 30, 326; montanum, 30; novegicum, 30; ochraceum, 30, 326; smithii, 31, 327
Hygrolejeunea, 180
Hylocomnium, 173; brevirostre, 33, 43, 53+; splendens, 32, 219, 397
Hymenostomum breutelii, 215; krassavinii, 445
Hyophila bartramiana, 254; involuta, 254; stomatodonta, 255; tortula, 254
Hypnum circinale, 32; cupressiforme, 111; curvatum, 147; curvifolium, 44, 52, 227+, 229*; dieckii, 32; fertile, 32; imponens, 33, 40+, 52+, 397; myosuroides, 147; myosuron, 147; myosurum, 147; pallescens, 41+, 52+, 286+, 310, 396+; pratense, 32; revolutum, 32, 327; stoloniferum, 147+; subimponens, 32+; vaucheri, 310
Hypocenomyce friesii, 18; scalaris, 18
Hypogymnia austerodes, 18, 70*; bitteri, 207+; imshaugii, 5+, 15+; metaphysodes, 5, 13+; occidentalis, 5, 15+; physodes, 5, 15+, 70, 142, 207+, 222; rogusa, 13+; tubulosa, 5
Hypotrachyna contradicta, 120; **evansii**, 118+, 119*; fissicarpa, 120; **habenula**, 118+, 119*; leiophylla, 120; **ligulata**, 118+, 119*; lividescens, 120; scytophylla, 121; thysanota, 121

Icmadophila ericetorum, 18
importance values, of epiphytic bryophytes, 42+, 54; of lichens, 190+
India, lichenology in, 471, new hepatic species, 329
Inflatolejeunea, 179
INGRAM, G. A. Haemagglutinins and haemolysins in selected lichen species, 389
IRELAND, R. R. Grimmia teretinervis (Musci: Grimmiaceae) in North America, 332
IRELAND, R. R. & N. G. MILLER. Grimmia anodon (Musci: Grimmiaceae) in North America north of Mexico, 112
IRELAND, R. R. *See* TALBOT, S. S. & R. R. IRELAND, 319
Isopterygiopsis, 174; muelleriana, 44
Isopterygium, 173+; cuspidifolium, 174; diminutivum, 254; distichaceum, 43, 52+, 174; elegans, 32, 327; pulchellum, 32, 310, 327; richardsii, 146; seligeri, 32
Isothecium alopecuroides, 421+, 422*; cristatum, 31, 422; eu-myosuroides, 147; myosuroides, 147+, 421; myurum, 148, 421; spiculiferum, 327; stolonifera, 31, 147+, 420
Israel, new moss records for, 214

Jackiella flava, 361+
Jaegerina scariosa, 254
Jaffueliobryum raui, 218+; wrightii, 218+
Jamesoniella autumnalis, 42+, 53+
Jungermannia byssacea, 177+

Kansas, new moss records for, 218
KASPAR, M., G. M. SIMMONS, JR., B. C. PARKER, K. G. SEABURG, R. A. WHARTON, JR. & R. I. L. SMITH. Bryum Hedw. collected from Lake Vanda, Antarctica, 424
KEENER, C. S. (review), G. Nelson & N. Platnick. Systematics and Biogeography: Cladistics and Vicariance, 276
Kiaeria blytii, 24, 327; starkei, 24
Kleioweisia krassavini, 445
KNOX, M. D. E. Three new species of Hypotrachyna (Vainio) Hale from South Africa, 118
Korea, hepatics of, 176
KORF, R. P. (review), D. R. Reynolds. Ascomycete Systematics: The Luttrellian Concept, 278

KUMAR, A. *See* UDAR, R. & A. KUMAR, 315
Kurzia, 233
KUTA, E., R. OCHYRA & L. PRZYWARA. Karyological studies on Antarctic mosses I, 131

Labrador, lichen record, 122+
LARSON, D. W. *See* BAILEY, C. & D. W. LARSON, 431
LAWREY, J. D. *See* WHITON, J. C. & J. D. LAWREY, 222
Lazarenko, Andrey S., 444+
Lecania dimera, 190; erysibe, 390; syringa, 18
Lecanora sp., 440; actophylla, 390; albella, 70; alphoplaca, 189+; atra, 390; cadubriae, 18; carpinea, 18; castanea, 70; coilocarpa, 18, 70; crenulata, 189+; dispersa, 70, 189+; hagenii, 18, 70, 189+; helicopsis, 390; muralis, 18, 189+; pallida, 70; piniperda, 190, 207+; polytropa, 18, 189+; pulicaris, 18; rugosella, 18; rupicola, 18; sambuci, 70; subfusca, 70; symmicta, 70; translyvanica, 90+, 93*; varia, 18, 70, var. sarcopis, 70
Lecidea atrobrunnea, 18, 189; auriculata, 18; berengeriana, 18; cinnabarina, 18, 70; dolodes, 18; enteroluca, 70; fuscescens, 70; granulosa, 18; insularis, 18; marginata, 18; pachydermatica, 70; pantherina, 18; russellii, 189; subincongrua, 390; tessellata, 189+; tornoënsis, 70; vernalis, 70
Lecidella carpathica, 18; euphorea, 70; glomerulosa, 18; stigmatea, 18
Lejeunea, 104+, 331; cavifolia, 44, 53; flava, 440; piloloba, 84; ulicina, 40+, 53+
Lempidium longifolium, 236
Lepidozia, 232+; reptans, 43+, 53+
Lepraria, 223; finkii, 18; incana, 390+
Leptobryum pyriforme, 27, 248, 309, 327
Leptodictyum riparium, 310, 327; trichopodium, 327
Leptodontium flexifolium, 247, 309
Leptogium lichenoides, 18, 70; saturninum, 18, 67+
Leptolejeunea, 104, 179
Lescuraea, 174; atricha, 30; baileyi, 30; incurvata, 30, var. gigantea, 30: patens, 30; radicosa, 30; stenophylla, 2, 30
Leskea gracilescens, 227+, 229*; polycarpa, 30
Leskeela nervosa, 286+
LESNYAK, E. N. Andrey S. Lazarenko. 27 November 1901–13 October 1979, 444
Letharia columbiona, 18; vulpina, 5, 18, 207+
Leucobryum albidum, 255, 319; glaucum, 397; incurvifolium, 255
Leucodon brachypus, 43, 53+, 286+
Leucodontopsis geniculata, 255; florida, 255
Leucolejeunea, 179; unciloba, 440
Leucolepis menziesii, 27
lichen biochemistry, 222+, 361+, 389+
lichen guide, Ottawa, Canada region, 470
lichen physiology, 361, 431
Lichina confinis, 390; pygmaea, 390
Lindberg, S. O., bryological reports of, 181
Lindbergii brachyptera, 219, 310; mexicana, 310
Lobaria hallii, 15+, 70; oregana, 303; pulmonaria, 15+, 70, 124; scrobiculata, 70, 124
Loiseaubryum ephemeroides, 103
Lopadium pezizoideum, 18, 71
Lophocolea apalachicola, 178; appalachiana, 178; heterophylla, 42, 53+, 317
Lopholejeunea, 331; muelleriana subsp. floridana, 179
Lophozia alpestris, 28; capitata, 142; cylindracea, 142; elongata, 142; excisa, 142+; grandiretis var. parviretis, 142; kiaerii, 142+, 143*; longidens, 142+
Luisierella barbula, 255
Lunularia cruciata, 320+
Lydiaea vlassovii, 445
LYFORD, J. H. *See* CHRISTY, J. A., J. H. LYFORD & D. H. WAGNER, 22

MAASS, W. S. G. *See* HOISINGTON, B. L. & W. S. G. MAASS, 122
MAGILL, R. E. *See* FIFE, A. & R. E. MAGILL, 99
Mamillariella geniculata, 445+
MARAVALO, N. C. *See* GAAL, D. J., S. J. DUFRESNE & N. C. MARAVALO, 410
Marchantia polymorpha, 410+, 309
MARGADANT, W. D. Nomenclatural problems in Crum and Anderson's Mosses of Eastern North America and an evaluating dream, 147
Massalongia carnosa, 18
Mastigobryum griffithianum, 231+
Mastigopelma, 232; fragile, 232; pulvinatum, 232; simplex, 232; subfissum, 232
Mastigophora woodsii, 238
MCCUNE, B. Lichens of the Swan Valley, Montana, 13
MCCUNE, B. & J. A. ANTOS. Epiphyte communities of the Swan Valley, Montana, 1
Meesia triquetra, 28
Melanelia elegantula, 18
Melanelia multispora, 15+; sorediosa, 18; subaurifera, 18; subelegantula, 15+; subolivacea, 18
Melaspilea proximella, 71
MERICLE, L. M. *See* TAYLOR, J. & L. M. MERICLE, 115
Metaneckera menziesii, 29, 327
Metzgeria, 317; crassipilus, 41+, 53*; furcata, 40+, 54, 335
Mexico, new lichen species, 79+; Yucatan peninsula mosses; 253+; new moss records, 322+
Michigan, bryophytes, 281
Microlejeunea, 179, 331
Microlepidozia, 231
Microthamnium thelistegium, 255
Mielichhoferia, 245+; elongata, 442; macrocarpa, 442+; mielichhoferi, 442; tehamensis, 327

MILLER, N. G. *See* IRELAND, R. R. & N. G. MILLER, 112
Mittenothamnium diminutivum, 255; elegantulum, 111
Mniobryum, 174
Mnium, 174; affine, 397; ambiguum, 219; blytii, 27; ciliare, 43; 52+, 319, 397; cuspidatum, 41+, 52+, 286+; drummondii, 397; gracile, 174; heterophyllum, 447; hornum, 55; longirostrum, 28; lycopodioides, 27; magnifolium, 28; marginatum, 27, 327; medium, 327, 397; orthorrhynchum, 27, 327; pseudopunctatum, 397; punctatum, 327, 397, var. appalachianum, 174, var. elatum, 28; rugicum, 327; spinulosum, 27, 397; thomsonii, 27
Molenda sendtneriana, 309
Montana, Swan Valley, lichens of, 1+, 13+; southeastern, lichens of, 204+; new moss records for, 218
MUELLER, D. M. J. *See* NEUMANN, A. J., A. E. RUSHING & D. M. J. MUELLER, 74
Mycoblastus sanguinarius, 18; tornoensis, 18
Mycocalicium parietinum, 66+
Mycoglaena meridionalis, 68; myricae, 71
Myurella julacea, 29

NEBEKER, G. T. *See* RUSHFORTH, S. R. & L. L. ST. CLAIR, J. D. BROTHERSON & G. T. NEBEKER, 185
Nebraska, new moss records for, 220
Neckera douglasii, 29; menziesii, 29; pennata, 40+, 52+, 286+, 309, var. tenera, 310
Neckeradelphus varians, 445
Neckeropsis foveolata, 247; undulata, 255
Neohyophila spathalifolia, 255; sprengelii, 255; stomatodonta, 255
Nephroma bellum, 18, 71, 123; helveticum, 18; isidiosum, 71; parile, 18, 71; resupinatum, 15+, 70
NEUMANN, A. J., A. E. RUSHING & D. M. J. MUELLER. A modified, short protocol for preparation of bryophytes for scanning electron microscopy, 74
Neurolejeunea, 179
Newfoundland, lichen records, 172+; new mosses for, 421, 442+
New Mexico, bryophytes, 307
New Zealand, lichens, 301
Nicaragua, new moss record, 323
niche breadth and overlap, 190+
Nigeria, new mosses for, 110, 312
nomenclature, bryophyte, 147
North Dakota, new moss records for, 218
Northwest Territories, new moss record, 334
Notothylos, 358
Nowellia curvifolia, 44, 53, 336

Ochrolechia androgyna, 71; frigida, 71; pallescens, 19, parella, 390; upsaliensis, 19
OCHYRA, R. *See* KUTA, E., R. OCHYRA & L. PRZYWARA, 131
Octoblepharum albidum, 255
Odontoschisma prostratum, 319
ODU, E. A. & O. O. OWOTOMO. Periodic production of gemmiferous leaves in two west tropical African Calymperes species: C. afzelii Sw. and C. erosum C. Muell., 239
Oedipodiella australis, 74+, 75*, 76*
Oedipodium griffithianum, 443
Ohio, mosses, 227
Oklahoma, bryophytes, 319
OLARINMOYE, S. O. *See* EGUNYOMI, A. & S. O. OLARINMOYE, 312
Oligotrichum aligerum, 32; hercynicum, 32
olivetoric acid, 120
Onchophorus virens, 327; wahlenbergii, 24, 397
Ontario, new moss record, 334, 421
ordination, of lichens, 3+
Oreas martiana, 139+
Oregon, mosses of, 22+
Orthodicranum strictum, 219+
Orthodontium, 245+
Orthostichopsis tetragona, 255
Orthothecium, 173; intricata, 174
Orthotrichum affine, 2, 28, 215, 219, 327; alpestre, 28; anomalum, 309; consimile, 28; cupulatum, 28; diaphanum, 220, 309; hallii, 309; holzimeri, 28; jamesianum, 219; keeverae, 405; laevigatum, 28, 327; lyellii, 28, 327; obtusifolium, 2, 28, 220; ohioense, 44, 52; pulchellum, 28; pumilum, 309; pylaisii, 327; rivulare, 28; rupestre, 28, 215, 309, 327; sordidum, 286+; speciosum, 2, 28, 248, var. elegans, 28; strangulatum, 335; striatum, 28, 215; vicarium, 445
Otigoniolejeunea, 179
OWOTOMO, O. O. *See* E. A. ODU & O. O. OWOTOMO, 239
Oxystegus linearis, 128

Pachyospora verrucosa, 19, 71
Pallavicinia lyellii, 319
PALMER, P. G. *See* ANDERSON, L. E. & P. G. PALMER, 193
Panama, new moss species, 85+; new moss records, 322
Pannaria praetermissa, 19
Papillaria nigrescens, 255, 440
Paraguay, new moss record, 322
Paraleucobryum densifolium, 323; longifolium, 40+, 52+, 142, 286+
PARKER, B. C. *See* KASPAR, M., G. M. SIMMONS, JR., B. C. PARKER, K. G. SEABURG, R. A. WHARTON, JR. & R. I. C. SMITH, 424
Parmelia, 223; aspera, 390; caperata, 389+; disjuncta, 71; exasperatula, 71, 207+; fissicarpa, 120; glabratula, 390; incurva, 71; loxodes, 390; minarum, 118; omphalodes, 71; perlata, 390; prolixa, 390; saxatilis, 71, 390; septentrionalis, 71; soredica, 207+; sorediosa, 71; sphae-

rosporella, 19; stygia, 71; subaurifera, 390; subolivacea, 189+, 207+; subrudecta, 390; sulcata, 2+, 15+, 70, 207+, 390
Parmeliatum chlorochroae, 251
Parmeliella triptophylla, 71
Parmelina aurulenta, 118
Parmeliopsis aleurites, 19; ambigua, 5+, 15+, 71, 207+; hyperopta, 5+, 15+, 71; placorodia, 207+
Parmotrema **arteagum**, 79+, 80*, 81*; dilatatum, 440; eurysacum, 82; hypotropum, 82; parahypotropum, 82; perforatum, 79+; praesorediosum, 440; subtinctorum, 440; tinctorum, 440
Pellia endivifolia, 336
Peltigera, 431; aphthosa, 19; canina, 19, 71; collina, 19, 71; elisabethae, 19; leucophlebia, 19; malacea, 19; praetextata, 19; rufescens, 19; spura, 19; venosa, 19
perianth, 96+
peristome, 193
Pertusaria amara, 19, 440; carneopallida, 66+; copiosa, 440; coriacea var. obducens, 72; dactylina, 72; lecanina subsp. nigra, 21; ophthalmiza, 19; paratubercularia, 440; pseudocorollina, 390; pustulata, 440; sinusmexicani, 441; stenhammari, 15+; texana, 441
Peru, new moss record, 327
pH, 38+, 207+, 222+, 365, 431+
Phaeocalicium compressalum, 19, 72
Phaeoceros, 358
Phaeographicus sp., 441
Phaeophyscia constipata, 19; decolor, 19; sciastra, 19, 72
Phascum cuspidatum, 25, 309; peraristatum, 102; vlassovii, 445
phenogram, 189
Philonotis americana, 28; capillaris, 28; fontana, 28, 248, 309, 327, var. americana, 28, 310, var. caespitosa, 309, var. pumila, 28; gracillima, 255
Philophyllum tenuifolium, 247
Physantholejeunea, 179
Physcia aipolia, 19, 390+; americana, 440; ascendens, 19, 207+; caesia 19, 72; dubia, 19, 72; orbicularis, 189+; phaea, 19; sciastra, 189+; semipinnata, 15+; stellaris, 19, 72, 189+, 207+; subtilis, 189; tenella, 72
Physcomitrella bartlettii, 102
Physcomitrium, 102; arenicola, 445; hookeri, 26; immersum, 26; kellermanii, 26; megalocarpum, 26; pyriforme, 26, 227+, 229+
Physconia detersa, 72; enteroxantha, 72; muscigena, 19, 72, 189+; pulverenta, 189+
Pireella cymbifolia, 255; pachyclada, 255
Placolejeunea, 179
Plagiobryum demissum, 245; giraldii, 245+, japonicum, 245+; novae-seelandiae, 245+; piliferum, 245+; zierii, 27, 243+, 244+, 246+
Plagiochila, 178+; asplenoides, 40+, 52+; japonica, 52; neorichardsii, 146
Plagiochisma rupestre, 309; wrightii, 309
Plagiomnium affine, 33; ciliare, 33, 319; cuspidatum, 27; drummondii, 27; ellipticum, 27+; insigne, 27; medium, 28, 220; rostratum, 28; rugicum, 27; venustum, 28
Plagiopus oederiana, 28, 174, 336; oederi, 28
Plagiothecium, 173; cavifolium, 32; cordifolium, 445; denticulatum, 32, 42+, 53+, 310, 327; korjakorum, 445; laetum, 32, 397; piliferum, 32; simonovii, 424; undulatum, 32
Platismatia glauca, 2+, 15+, 72, 124, 207+; norvegica, 124
Platydicta jungermannioides, 31, 219, 327; subtitle, 44, 53
Platygyrium repens, 40, 52+, 286+, 397
Pleuridium acuminatum, 227+, 229*; subulatum, 24
Pleurochaete luteola, 407; squarrosa, 405+
Pleurozia purpurea, 238
Pleurozium, 173; schreberi, 32, 286+, 397, 405+
Pogonatum alpinum, 32+, 327, 335, var. sylvaticum, 32; contortum, 32; dentatum, 32; urnigerum, 32
Pohlia, 174, annotina, 27, 148, 327, var. decipiens, 27; apiculata, 174; cardotii, 27; cruda, 27, 327, var. imbricata, 133*, 135; drummondii, 27, 248, 309, 327, var. gracilis, 27; elongata, 27; filiformis, 27; filum, 248; lescuriana, 27; longibracteata, 27; longicolla, 27, 248; ludwigii, 27; nutans, 27, 133*, 135, 327, 396+; obtusifolia, 27; polycarpa, 247; proligera, 27, 220, 248, 327; schleicheri, 27; spectabilis, 243; sphagnicola, 27, 248; vexans, 33; wahlenbergii, 27, 248, 309, 327
poikilohydry, 472
Polychidium muscicola, 19
Polytrichadelphus lyallii, 33
Polytrichum alpestre, 138; alpinum, 132+, 133*, var. brevifolium, 132; commune, 32, 319, 327, var. jensenii, 32, var. maximoviczii, 32; formosum, 32, 327; juniperinum, 32, 132+, 327, 396+; longisetum, 32; lyallii, 33, 327; ohioense, 34; piliferum, 33, 132+, 248, 327, 396; sexangulare, 33, 327; sphaerothecium, 33; strictum, 33
Porella inaequalis, 179; pinnata, 179; platyphylla, 41+, 52+, 308; platyphylloidea, 286+
Porothamnium bigelovii, 29
Porotrichum bigelovii, 29, 327
Pottia arizonica var. mucronulata, 309; heimii, 25, 448; intermedia, 449; lanceolata, 449; nevadensis, 25; trunctata, 25
protocetraric acid, 120
PRZYWARA, L. *See* KUTA, E., R. OCHYRA & L. PRZYWARA, 131
Pseudaloina woodii, 401+, 402*
Pseudephebe minuscula, 72; pubescens, 72
Pseudevernia, 82
Pseudobraunia californica, 29

Pseudocrossidium aureum, 309; replicatum, 309; revolutum, 25
Pseudocryphaea domingensis, 255; flagellifera, 255
Pseudocyphellaria homoeophylla, 301+
Pseudoleskea, 174; atricha, 30; baileyi, 30; incurvata, 30, var. gigantea, 30; patens, 30, 327; radicosa, 30, 284+, 327; stenophylla, 30
Pseudoleskeella tectorum, 220, 310
Pseudoparmelia basutoensis, 118; caroliniana, 440
Pseudopohlia, 249
Pseudoscleropodium cespitans, 31, var. sublaeve, 31; purum, 443
Psora nipponica, 19; rubiformis, 19; russellii, 19
Psoroma hypnorum, 19, 72

Radula, 108, 177+; auriculata, 238; australis, 440; boryana, 179; complanata, 40+, 52, 179, 286+, 308, var. lindbergiana, 179; flaccida, 179; gottscheana, 179; lindbergiana, 179; tenax, 40+, 52; voluta, 179
Ramalina complanata, 361+; farinacea, 72, 390; fastigata, 390; fraxinea, 72; obtusata, 15+; pollinaria, 15+; siliquosa, 390; stenospora, 361+; thrausta, 15+
Reboulia, 358; hemisphaerica, 309
Rectolejeunea, 180; pililoba, 84
REESE, W. D. Syrrhopodon **isthmi** (Musci; Calymperaceae), a new species from Panama, 85
respiration, response in lichens to toxins, 361+
Rhabdoweisia crispata, 336
Rhacomitrium aciculare, 26, 327; aquaticum, 26; canescens, 26, 248; depressum, 327; heterostichum, 26, 327, var. macounii, 33, var. microcarpon, 33, var. occidentale, 26, var. sudeticum, 26, 327; lanuginosum, 26, 248; microcarpon, 174; patens, 26; sudeticum, 26; varium, 26
Rhizocarpon constrictum, 390; disporum, 19, 189+; geographicum, 19, 390; grande, 19; riparium, 19
Rhizomnium glabrescens, 28; magnifolium, 28; nudum, 28; personii, 28; pseudopunctatum, 28
Rhizoplaca melanophthalma, 19
Rhodobryum, 244; ontariense, 219; roseum, 33, 41+, 52+
Rhynchostegiella compacta, 31
Rhynchostegium serrulatum, 40+, 52+, 310
Rhytidiadelphus loreus, 32+; squarrosus, 32+; triquetrus, 32
Rhytidiopsus robusta, 32
Rhytidium, 173; rugosum, 32, 335
Riccardia multifida, 74+, 75*; pinguis, 276, 394
Riccia, 358; dictyospora, 405
Richards, Donald, 145
Rinodina althallina, 88+; archaea, 19, 72; archaeoides, 72; conardii, 72; exigua, 19; lecideoides, 72; milvina, 19; murorum, 88+; pyrina, 18, 189+; subnigra, 88+; transsylvanica, 88+; turfacea, 19, 72; violascens, 88+, 90*, 92*; zwackhiana, 88+, 92*, 93*
Roellia roellii, 27+, 327
ROHRER, J. R. Sporophyte production and sexuality of mosses in two northern Michigan habitats, 394
ROLSTON, H., III, Bryum knowltonii new to the United States, 420
RUSHFORTH, S. R., L. L. ST. CLAIR, J. D. BROTHERSON & G. T. NEBEKER. Lichen community structure in Zion National Park, 185
RUSHING, A. E. *See* NEUMANN, A. J., A. E. RUSHING & D. M. J. MUELLER, 74

ST. CLAIR, L. L. *See* RUSHFORTH, S. R., L. L. ST. CLAIR, J. D. BROTHERSON & G. T. NEBEKER, 185
salicylhydroxamic acid, effects on lichhens, 361+
saxicolous cryptogams, lichens, 64+, 185+, 275
scanning electron microscope, protocol for, 74+
Scapania americana, 279; bolanderi, 279; calicola subsp. ligulifolia, 98; crassiretis, 278; curta, 335; irrigua, 279, subsp. rufescens, 98; nemorea, 278+, nemorosa, 44, 278; obscura, 279; ornithodioides, 237; paludicola, 279; paludosa, 279; serrulata, 279; spitzbergensis, 279; subalpina, 279; uliginosa, 279; umbrosa, 279; undulata, 279, var. aequatiformis, 279
Schistidium, 334; trichodon, 443
Schistostega osmundacea, 446
Schizomitrium pallidum, 174
Schlotheimia rugifolia, 256; torquata, 256
Schoenobryum gardneri, 256; robustum, 111; subintegrum var. idareense, 111; subrobustum, 111
SCHOFIELD, W. B. *See* SCHUSTER, R. M. & W. B. SCHOFIELD, 231
SCHUSTER, R. M. *See* ENGEL, J. J. & R. M. SCHUSTER, 375
SCHUSTER, R. M. & W. B. SCHOFIELD. On Dendrobazzania, a new genus of Lepidoziaceae (Jungermanniales), 231
Schwetskeopsis fabronia, 41+, 52
Sciaromium tricostatum, 31
Scleropodium cespitans var. sublaeve, 31; obtusifolium, 31, 328; tourettei, 31, var. colpophyllum, 31
Scouleria aquatica, 26, 328; marginata, 26
SEABURG, K. G. *See* KASPAR, M., G. M. SIMMONS, JR.,B. C. PARKER, K. G. SEABURG, R. A. WHARTON, JR. & R. I. L. SMITH, 424
Sematophyllum adnatum, 256; micans, 174; sericeum, 256
sexuality, in mosses, 394+
SHAHEEN, F. *See* UDAR, R., U. S. AWASTHI & F. SHAHEEN, 329
SHARP, A. J. *See* DELGADILLO M., C., M. ANGELES CÁRDENAS M. & A. J. SHARP, 253
SHARP, A. J. & J. J. ENGEL. Donald Richards, 5 September 1920–14 December 1980, 145

SHAW, A. J. Plagiobryum zieri (Hedw.) Lindb. disjunct in Guatemala, with phytogeographic notes, 243
SHEARD, J. W. The saxicolous species of the lichenized ascomycete genus Rinodina (Ach.) Gray with blue epithecia, 88
SHOWERS, D. W. The mosses of Lassen Volcanic Park, California, 324
similarity, coefficients of, 38+, 55, 188
SIMMONS, JR., G. M. *See* KASPAR, M., G. M. SIMMONS, JR., B. C. PARKER, K. G. SEABURG, R. A. WHARTON, JR. & R. I. L. SMITH, 424
SLAVICK, A. D. *See* GLIME, J. M., F. D. BOWERS & A. D. SLAVICK, 335
SMITH, D. R. (review), E. D. Merrill. Plant Life of the Pacific World, 469
SMITH, R. I. L. *See* KASPAR, M., G. M. SIMMONS, JR., B. C. PARKER, K. G. SEABURG, R. A. WHARTON, JR. & R. I. L. SMITH, 424
SNELGAR, W. P. & T. G. A. GREEN. Growth rates of Stictaceae lichens in New Zealand beech forests, 301
Sordaria fimicola, 220+
soredia, 88+
South Africa, new moss genus, 99+ new moss species, 118
South Dakota, new moss records for, 219
species richness, 44, 52
Sphagnum, 124; angustifolium, 22; capillifolium, 23, var. tenellum, 23; centrale, 397; compactum, 22; contortum, 22, 174; fallax, 22; fimbriatum, 22, 220, 328; fuscum, 22, 248, 328; girgensohnii, 23; henryense, 23+; junghuhnianum, 238; mendocinum, 23; nemoreum, 23; palustre, 23; papillosum, 23; platyphyllum, 23; pulchrum, 336; quinquefarium, 23; recurvum, 397, var. brevifolium, 22, var. tenue, 22; richardsianum, 146; rubellum, 23; russowii, 23, 248; squarrosum, 23, 328, 397; subnitens, 23; subobesum, 238; subsecundum, 23, 328, var. contortum, 22, var. platyphyllum, 23, var. rufescens, 319; tenellum, 23; teres, 23, 328; warnstorfii, 23, 248, 397
Splachnobryum obtusum, 256
Splachnum ampullaceum, 26, 248; ovatum, 448
sporophytes, re: sexuality in mosses, 394+
STARK, L. R. & R. C. CASTETTER. A preliminary list of bryophytes from the Organ Mountains, New Mexico, 307
Staurothele clopima, 189+
STEERE, W. C. (review), P. Isoviita. S. O. Lindberg's Bryological Reports in Finnish Newspapers. Critically Annotated Facsimile Collection, 181
Stereocaulon, 139; alpinum, 20; glareosum, 20
Stereophyllum, 173; leucostegum, 256; radiculosum, 256; subobtusum, 256
Sticta caperata, 301+
stictic acid, 222+
Stictolejeunea squamata, 104
Stokesiella, 174; brittoniae, 31; oregana, 31; praelonga, 31, 328, var. stokesii, 31
STONEBURNER, A. *See* WYATT, R. & A. STONEBURNER, 405
STOTLER, R. E. & B. CRANDALL-STOTLER. Recent literature on hepatics and anthocerotes—93, 51
STOTLER, R. E. & B. CRANDALL-STOTLER. Recent literature on hepatics & anthocerates—94, 258
STOTLER, R. E. & B. CRANDALL-STOTLER. Recent literature on hepatics & anthocerates—95, 337
STOTLER, R. E. & B. CRANDALL-STOTLER. Recent literature on hepatics & anthocerates—96, 451
Strepsilejeunea, 179
STUDLAR, S. M. Host specificity of epiphytic bryophytes near Mountain Lake, Virginia, 37
STUDLAR, S. M. Succession of epiphytic bryophytes near Mountain Lake, Virginia, 51
succession, of epiphytic bryophytes, 51
Symphyomitra concinna, 361
Synthetodontium, 249
Syntrichia ferganensis, 445
Syrrhopodon annotinus, 84; armatus, 312; gudichaudii, 312+; incompletus, 256; **isthmi**, 85+, 86*, 87*; lamprocarpus, 312; leprieurii, 84; **obuduensis**, 312+, 313*; parasiticus, 256; texanus, 74+, 76*

TALBOT, S. S. & R. R. IRELAND. Bryophytes new to the flora of Oklahoma, 319
Targonia, 358
Tasmania, hepatics, 375
Taxilejeunea cladiophora, 180; sharpii, 180
Taxiphyllum alternans, 174; deplanatum, 310; taxirameum, 310
Taxithelium planum, 256; porto-ricense, 256
TAYLOR, J. & L. W. MERICLE. Pitting of cells in the carpocephalum stalk of Conocephalum conicum (L.) Dum., 115
Tayloria hornschuchii, 26; serrata, 26
Telaranea, 237; nematodes, 74+, 75*, 319
Temnoma, 104
Tetraphis geniculata, 32; pellucida, 32; 40+, 52+, 397; trachypoda, 447
Tetraplodon paradoxus, 139+
Thamnium microalopecurum, 33; vorobjovii, 445
Thamnobryum neckeroides, 29
Thelia asprella, 55
THIERS, B. M. Branching in the Lejeuneaceae I: A comparison of branch development in Aphanolejeunea and Cololejeunea, 104
Thrombium epigaeum, 20
Thuidium allenii, 319; chenagonii, 111; delicatulum, 41+, 53+, 396+; involvens, 256; minutulum, 43, 53+; recognitum, 30, 397; schistocalyx, 256

Timmia austriaca, 28, 112, 328; bavarica, 448
Timmiella anomala, 328; crassinervis, 25
Tomenthypnum nitens, 31, 248, 397
Toninia aromatica, 20; caeruleonigricans, 20, 189+; candida, 20
Tortella arctica, 443; fragilis, 25; humilis, 227+, 229*; richardsii, 146; tortuosa, 25, 309
Tortula afanassievii, 445; amplexa, 25; bartramia, 309; bistratosa, 25, 310; bolanderi, 25; brevipes, 25; cainii, 220; caroliniana, 247; desertorum, 448; ferganensis, 445+; fragilis, 309; fuscoviridis, 429; inermis, 309; intermedia, 174; laevipila, 25; latifolia, 25; mucronifolia, 328; muralis, 25, 328; norvegica, 25, 248, 310, 328; pagorum, 309; papillosa, 175, 220, 309; papillosissima, 25, 310; princeps, 25, 328; propagulata, 445; propagulosa, 247; revolutifolia, 445; ruraliformis, 25; ruralis, 25, 174, 248, 309, 328, 448, var. hirsuta, 310; scabrinervis, 445; subulata, 25, 328
TRAVERSE, A. (review), E. Van Campo. Spores d'hépatiques du Neogène tunisien et sédimentation sporale, 358
Trematodon boasii, 24
Treubia nana, 238
Trichodon cylindricus, 24, 174
Trichosteleum sentosum, 256
Trichostomopsis australasiae, 25
Trichostomum, 310; crispulum, 256; jamaicense, 256; **molariforme**, 126+, 127*; tenuirostre, 40+, 52
Tripterocladium leucocladulum, 29
Triquetrella californica, 25
Tritomaria exsecta, 336; quinquedentata, 96+, 97*, var. turgida, 96+, 97*
TRYNOSKI, S. E. & J. M. GLIME. Direction and height of bryophytes on four species of northern trees, 281
Tuerckheimia linearis, 128
Tylimanthus approximatus, 176

UDAR, R., U. S. AWASTHI & F. SHAHEEN. A new Caudelejeunea from India, 329
UDAR, R. & A. KUMAR. A new Chonecolea from India, 315
Ulota crispa, 45, 52+, 286+, var. alaskana, 29; hutchinseae, 44, 52; megalospora, 29; obtusiuscula, 29; phyllantha, 29
Umbilicaria cylindrica, 72; deusta, 20; hyperborea, 20; mammulata, 431+; phaea, 20; polyphylla, 20; torrefacta, 20, 72; vellea, 20
Usmania campylopoda, 445
Usnea fragilescens, 389+; fulvoreagens, 207+; hirta, 20, 204+; mutabilis, 440; scabrata, 20, subsp. nylanderiana, 20; sorediifera, 20
Utah, lichens, 185+, 251

VÁŇA, J. (review), D. R. Zehr. An assessment of variation in Scapania nemorosa and selected related species (Hepatophyta), 278
Varicellaria rhodocarpa, 66+
Venezuela, new moss records, 322+
Verrucaria muralis, 20
vertical zonation, on epiphytic bryophytes, 59, 281+
Vesicularia, 174; amphibola, 256; vesicularis, 256
Virginia, bryophytes, 22+, 374
VITT, D. H. (review), Å. Sjödin. Index to distribution maps of bryophytes 1887–1975 II. Hepaticae, 276
vulpinic acid, 222+

WAGNER, D. H. *See* CHRISTY, J. A., J. H. LYFORD & D. H. WAGNER, 22
Washington, new lichen record, 251
water absorption, of epiphyte host trees, 39+
water quality, and lichen productivity, 431+
WEBER, W. A. (review), M. Creveld. Epilithic lichen communities in the Alpine zone of southern Norway. Bibliotheca Lichenologica 17, 275
Weissia controversa, 25, 110, 309, 328; crispa, 110; exserta, 110; glauca, 220, 309; ligulaefolia, 309; papillosissima, 445; tortilis, 220; viridula, 110
West Bengal, new hepatic genus, 231+
WHARTON, JR., R. A. *See* KASPAR, M., G. M. SIMMONS, JR., B. C. PARKER, K. G. SEABURG, R. A. WHARTON, JR. & R. I. L. SMITH, 424
WHITON, J. C. & J. D. LAWREY. Inhibition of Cladonia cristatella and Sordaria fimicola ascospore germination by lichen acids, 222
WHITTEMORE, A. The occurrence of Lunularia cruciata in California, 320
WYATT, R. & A. STONEBURNER. Range extensions for some cryptogams from granite outcrops in Alabama, 405
Wyoming, new moss records for, 219

Xanthoparmelia, 118; cumberlandia, 20
Xanthoparmelia **barbatica**, 129+, 130*; **burmeisteri**, 129; chlorochroa, 205; lineola, 189+; mexicana, 189+; plittii, 20
Xanthoria candelaria, 20, 72; elegans, 20; fallax, 189, 207+; parietina, 389; polycarpa, 20, 189+, 207+; sorediata, 20
Xerophytism, in mosses, 472
Xylographa abietina, 72

YANO, O. (review), D. Griffin, III. Guia preliminar para as briófitas freqüentes em Manaus e adjacências, 175
Yemen, new moss genus, 401
Yukon, new lichen record, 251

ZANDER, R. H. Trichostomum molariforme sp. nov. and Atractylocarpus stenocarpus (Wils. in Seem.) comb. nov., 126
Zelometeorium patulum, 256
Zygodon reinwardtii, 238
Zygodon viridissimus, 40, 52, var. rupestris, 29; vulgaris, 29

THE BRYOLOGIST

Quarterly Journal of the American Bryological and Lichenological Society

Editor
RICHARD H. ZANDER

Volume 85
1982

Table of Contents

ALLEN, B. H. *Isothecium alopecuroides* new to North America 421
ALSTRUP, V. The epiphytic lichens of Greenland 64
ANDERSON, L. E. Review 274
ANDERSON, L. E. & P. G. PALMER. The peristome of *Anacamptodon splachnoides* 193
BAILEY, C. & D. W. LARSON. Water quality and pH effects on *Umbilicaria mammulata* (Ach.) Tuck. 431
BRASSARD, G. R., R. J. BELLAND & J. BRIDGLAND. Two rare arctic or montane mosses new to the Canadian Arctic Archipelago 139
BREIL, D. A. The rediscovery of *Rectolejeunea pililoba* (Spruce) Schust. (Hepaticae) in Florida 84
BUCK, W. R. Review 176
CHRISTY, J. A., J. H. LYFORD & D. H. WAGNER. Checklist of Oregon mosses 22
CHURCHILL, S. P. Mosses of the Great Plains VIII. Additions 218
CROSBY, M. R. & C. R. BAUER. Recent literature on mosses—121–123 ..... 160, 349, 463
CRUNDWELL, A. C. Review 173
DAMSHOLT, K. The perianth of *Tritomaria quinquedentata* var. *turgida* (Lindb.) Weim. (Hepaticae) 96
DELGADILLO M., C. *Pseudaloina* (Pottiaceae, Musci), a new genus from Yemen 401
DELGADILLO M., C., M. ANGELES CÁRDENAS S. & A. J. SHARP. Mosses of the Yucatán Peninsula, Mexico, I. 253
DIBBEN, M. J. Reviews 470–471
EGAN, R. S. *Parmotrema arteagum*, a new lichen species from Mexico 79
EGAN, R. S. Recent literature on lichens—111–114 ..... 166, 266, 342, 456
EGAN, R. S. *Xanthoparmelia barbatica* (Elix) comb. nov. new to North America 129
EGUNYOMI, A. Eight mosses new to Nigeria 110
EGUNYOMI, A. & S. O. OLARINMOYE. *Syrrhopodon obuduensis*, a new moss species from Nigeria 312
ENGEL, J. J. & R. M. SCHUSTER. Austral Hepaticae XV. Brevianthaceae: A monotypic family endemic to Tasmania 375
EVERSMAN, S. Epiphytic lichens of a ponderosa pine forest in southeastern Montana 204
FIFE, A. J. & R. E. MAGILL. *Cygnicollum immersum*, a new genus and species of Funariaceae from the Cape of Good Hope 99
FINNEN, M. M. Chromosome numbers of some mosses from southern Ohio 227
FRAHM, J.-P. *Campylopodes Exsiccatae*: Fascicle II 252
FRAHM, J.-P. New *Campylopus* records from South and Central America II 322
FRISVOLL, A. A. The status of *Lophozia kiaerii* Jørg. 142
GAAL, D. J., S. J. DUFRESNE & N. C. MARAVOLO. Transport of ^{14}C-indoleacetic acid in the hepatic *Marchantia polymorpha* 410
GLIME, J. M. *Amblystegium riparium* new to New Mexico 419
GLIME, J. M., F. D. BOWERS & A. D. SLAVICK. The first annual midwest bryological foray 335
GORDY, V. R. & D. L. HENDRIX. Respiratory response of the lichens *Ramalina stenospora* Müll. Arg. and *Ramalina complanata* (Sw.) Ach. to azide, cyanide, salicylhydroxamic acid and bisulfite during thallus hydration 361

GRIFFIN, D., III & D. A. BREIL. Notes on *Frullania cobrensis* Gott. ex Steph. in Cuba and Florida ... 438
GROLLE, R. Review ... 176
HEDDERSON, T., G. R. BRASSARD & R. J. BELLAND. New or additional moss records from Newfoundland VIII ... 442
HERRNSTADT, I., C. C. HEYN, R. BEN-SASSON & M. R. CROSBY. New records of mosses from Israel ... 214
HOISINGTON, B. L. & W. S. G. MAASS. *Cavernularia hultenii* in northernmost Newfoundland and southern Labrador ... 122
INGRAM, G. A. Haemagglutinins and haemolysins in selected lichen species ... 389
IRELAND, R. R. *Grimmia teretinervis* (Musci: Grimmiaceae) in North America ... 332
IRELAND, R. R. & N. G. MILLER. *Grimmia anodon* (Musci: Grimmiaceae) in North America north of Mexico ... 112
KASPAR, M., G. M. SIMMONS, JR., B. C. PARKER, K. G. SEABURG, R. A. WHARTON, JR., R. I. LEWIS SMITH. *Bryum* Hedw. collected from Lake Vanda, Antarctica ... 424
KEENER, C. S. Review ... 276
KNOX, M. D. E. Three new species of *Hypotrachyna* (Vainio) Hale from South Africa ... 118
KORF, R. P. Review ... 278
KUTA, E., R. OCHYRA & L. PRZYWARA. Karyological studies on Antarctic mosses I ... 131
LESNYAK, E. N. Andrey S. Lazarenko. 27 November 1901–13 October 1979 ... 444
MARGADANT, W. D. Nomenclatural problems in Crum and Anderson's *Mosses of Eastern North America* and an evaluating dream ... 147
MCCUNE, B. Lichens of the Swan Valley, Montana ... 13
MCCUNE, B. & J. A. ANTOS. Epiphyte communities of the Swan Valley, Montana ... 1
NEUMANN, A. J., A. E. RUSHING & D. M. J. MUELLER. A modified, short protocol for preparation of bryophytes for scanning electron microscopy ... 74
ODU, E. A. & O. O. OWOTOMO. Periodic production of gemmiferous leaves in two west tropical African *Calymperes* species: *C. afzelii* Sw. and *C. erosum* C. Muell. ... 239
PURSELL, R. A. Review ... 358
REESE, W. D. *Syrrhopodon isthmi* (Musci: Calymperaceae), a new species from Panama ... 85
ROHRER, J. R. Sporophyte production and sexuality of mosses in two northern Michigan habitats ... 394
ROLSTON, H., III. *Bryum knowltonii* new to the United States ... 420
RUSHFORTH, S. R., L. L. ST. CLAIR, J. D. BROTHERSON & G. T. NEBEKER. Lichen community structure in Zion National Park ... 185
SCHUSTER, R. M. & W. B. SCHOFIELD. On *Dendrobazzania*, a new genus of Lepidoziaceae (Jungermanniales) ... 231
SHARP, A. J. & J. J. ENGEL. Donald Richards, 5 September 1920–14 December 1980 ... 145
SHAW, A. J. *Plagiobryum zieri* (Hedw.) Lindb. disjunct in Guatemala, with phytogeographic notes ... 243
SHEARD, J. W. The saxicolous species of the lichenized ascomycete genus *Rinodina* (Ach.) Gray with blue epithecia ... 88

SHOWERS, D. W. The mosses of Lassen Volcanic National Park, California 324
SMITH, D. R. Review 469
SNELGAR, W. P. & T. G. A. GREEN. Growth rates of Stictaceae lichens in New Zealand beech forests 301
STARK, L. R. & R. C. CASTETTER. A preliminary list of bryophytes from the Organ Mountains, New Mexico 307
STEERE, W. C. Review 181
STOTLER, R. E. & B. CRANDALL-STOTLER. Recent literature on hepatics and anthocerotes—93–96 ..... 151, 258, 337, 451
STUDLAR, S. M. Host specificity of epiphytic bryophytes near Mountain Lake, Virginia 37
STUDLAR, S. M. Succession of epiphytic bryophytes near Mountain Lake, Virginia 51
TALBOT, S. S. & R. R. IRELAND. Bryophytes new to the flora of Oklahoma 319
TAYLOR, J. & L. W. MERICLE. Pitting of cells in the carpocephalum stalk of *Conocephalum conicum* (L.) Dum. 115
THIERS, B. M. Branching in the Lejeuneaceae I: A comparison of branch development in *Aphanolejeunea* and *Cololejeunea* 104
THOMSON, J. W. A further note on *Caloplaca tominii* Savicz in the Americas 251
TRAVERSE, A. Review 358
TRYNOSKI, S. E. & J. M. GLIME. Direction and height of bryophytes on four species of northern trees 281
UDAR, R., U. S. AWASTHI & F. SHAHEEN. A new *Caudelejeunea* from India 329
UDAR, R. & A. KUMAR. A new *Chonecolea* from India 315
VÁŇA, J. Review 278
VITT, D. H. Review 276
WEBER, W. A. Review 275
WHITON, J. C. & J. D. LAWREY. Inhibition of *Cladonia cristatella* and *Sordaria fimicola* ascospore germination by lichen acids 222
WHITTEMORE, A. The occurrence of *Lunularia cruciata* in California 320
WYATT, R. & A. STONEBURNER. Range extensions for some cryptogams from granite outcrops in Alabama 405
YANO, O. Review 175
ZANDER, R. H. *Trichostomum molariforme* sp. nov. and *Atractylocarpus stenocarpus* (Wils. in Seem.) comb. nov. 126

Actual dates of issue of Volume 85:
Number 1: 3 June 1982
Number 2: 4 August 1982
Number 3: 10 December 1982
Number 4: 15 March 1983